B V H Consulting Engineers
Survey and Engineering Project Consultants

TEST REPORT ON M20 GRADE CONCRETE

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : Improvements to Roads and drains at Jakkur Layout Colony in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	29-01-2018	26-02-2018	482	21.42	
2	29-01-2018	26-02-2018	485	21.55	21.58
3	29-01-2018	26-02-2018	490	21.77	

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore Mahanagara Palike
Bangalore - 560 092

B.V.H. Consulting Engineers Bangalore

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 23240685, Cell :9964339888 E-mail : mbnk2278@yahoo.com

B V H Consulting Engineers
Survey and Engineering Project Consultants

TEST REPORT ON M20 GRADE CONCRETE

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : Improvements to Roads and drains at Jakkur Layout Colony in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	29-01-2018	26-02-2018	485	21.56	
2	29-01-2018	26-02-2018	480	21.33	21.41
3	29-01-2018	26-02-2018	480	21.33	

For B.V.H. Consulting Engineers

Proprietor

AE(WZ)

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 23240685, Cell : 9964339888 E-mail : mbnk2278@yahoo.com

TEST REPORT ON CEMENT

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : Improvements to Roads and drains at Jakkur Layout Colony in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

SAMPLE ID : Cement

PHYSICAL REQUIREMENTS:

Assistant Executive Engineer
Kodigehalli Sub Division
Byrathi Bangalore Mahanagara Palike
Bangalore - 560 092

Date of testing : 25-01-2018

Sl no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

For B.V.H. Consulting Engineers

Proprietor

AE (NP)

TEST REPORT ON FINE AGGREGATE

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : Improvements to Roads and drains at Jakkur Layout Colony in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

SAMPLE ID : Sand

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Date of testing : 25-01-2018 **Total Wt of Aggregate in Gms ;**1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

For B.V.H. Consulting Engineers

Proprietor

TEST REPORT ON COARSE AGGREGATE

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction

of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : Improvements to Roads and drains at Jakkur Layout Colony in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

Date of Testing: 25-01-2018

SAMPLE ID : 20 mm Aggregate

Date of testing

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Total Wt of Aggregate in Gms ;2300

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

For B.V.H. Consulting Engineers

Proprietor

AE(HQ)

B V H Consulting Engineers

Survey and Engineering Project Consultants

TEST FOR PRIME COAT

NAME OF WORK : Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : Improvements to Roads and drains at Nethaji Layout in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

Date of Testing: 21-02-2018

Tray no.	1	2
Weight of the tray(b)gms	1688	1688
Weight of the tray with prime(a)gms	1713.75	1712.92
Weight of prime(a-b)gms	25.75	24.92
Tray area (sqm)	300*300=0.09sqm	300*300=0.09sqm
Rate of spray (kg/sqm)	0.02575/0.09=0.28 kg/sqm	0.02492/0.09=0.27 kg/sqm
Avg. Rate of spray (kg/sqm)	0.275	

Specified rate as per Specification: 0.25 Kg/sqm

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be within 30 days from the date of testing.

For B.V.H. Consulting Engineers

Proprietor

AE(W7)

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 23240685, Cell : 9964339888 E-mail : mbnk2278@yahoo.com

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TEST FOR PRIME COAT

NAME OF WORK : Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : : Improvements to Roads and drains at Nethaji Layout in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

Date of Testing: 21-02-2018

Determination	Unit	Trial no.	
Size of tray in (sqm)		0.45x0.45	0.45x0.45
Area of tray (a)	Sqm	0.2025	0.2025
Initial Wt of empty tray(b)	Kg	1.625	1.627
Final Wt of tray with prime coat (c)	Kg	1.763	1.756
Weight of Prime coat (d=c-b)	Kg	0.1380	0.1290
Rate of Spray of prime coat	Kg/Sqm	0.681	0.637
Average	Kg/Sqm	0.659	
Specified Limit	Kg/Sqm	0.60 Kg/sqm	

AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560

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For B.V.H. Consulting Engineers

Proprietor

AE(W)

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 23240685, Cell : 9964339888 E-mail : mbnk2278@yahoo.com

TEST FOR TACK COAT

NAME OF WORK : Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : : Improvements to Roads and drains at Nethaji Layout in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

Date of Testing: 21-02-2018

Tray no.	1	2
Weight of the tray(b)gms	1688	1688
Weight of the tray with prime(a)gms	1713.75	1712.92
Weight of prime(a-b)gms	25.75	24.92
Tray area (sqm)	300*300=0.09sqm	300*300=0.09sqm
Rate of spray (kg/sqm)	0.02575/0.09=0.28 kg/sqm	0.02492/0.09=0.27 kg/sqm
Avg. Rate of spray (kg/sqm)	0.275	

Specified rate as per Specification: 0.25 Kg/sqm

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Note:

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For B.V.H. Consulting Engineers

Proprietor

AE(07)

B V H Consulting Engineers

Survey and Engineering Project Consultants

TEST FOR TACK COAT

NAME OF WORK : Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : : Improvements to Roads and drains at Nethaji Layout in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

Date of Testing: 21-02-2018

Prime Coat/tack Coat

Tray no.	1	2
Weight of the tray(b)gms	1688	1688
Weight of the tray with prime(a)gms	1714	1713
Weight of prime(a-b)gms	26	25
Tray area (sqm)	300*300=0.09sqm	300*300=0.09sqm
Rate of spray (kg/sqm)	0.026/0.09=0.29 kg/sqm	0.025/0.09=0.27 kg/sqm
Avg. Rate of spray (kg/sqm)	0.28	

Specified rate as per Specification: 0.25 Kg/sqm

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 003

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For B.V.H. Consulting Engineers

Proprietor

AE(W7)

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 2324
: 9964339888 E-mail : mbnk2278@yahoo.com

B V H Consulting Engineers

Survey and Engineering Project Consultants

GRADIATION FOR WMM

MORTH TABLE – 400 - 11

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7 & 8 Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub-Name of road : Improvements to Roads and drains at Nethaji Layout in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

CLIENT : Executive Engineer Byatarayanapura Division,NO.2152/20,Defence colony, Sahakara Nagara,Banglore-92 .

Name of the Agency : Benaka Developers & project pvt.Ltd.

SAMPLE ID : From 2nd Cross Road to 2nd Main TO 4th Cross Road to 2nd Main.

Reference : Agreement No.BBMP/EE/BTP/AG/007/16/000043/16-17 **DATED:** 16-01-2018.

Date of Testing : 12-02-2018.

IS Sieve Size in mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	Cumulative % of Retained	Cumulative % of Passing	Specific Limits
53	0	0	0	100	100
45	117	117	1.4	98.6	95-100
22.4	2514	2631	30.9	69.1	60-80
11.2	1478	4109	48.3	51.7	40-60
4.75	1352	5461	64.2	35.8	25-40
2.36	998	6459	75.9	24.1	15-30
0.600	945	7404	87.0	13.0	8-22
0.075	902	8306	97.6	2.4	0-8

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pa
Bangalore - 560 00

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For B.V.H. Consulting Engineers

Proprietor

AE(W7)

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 23240685, Cell : 9964339888 E-mail : mbnk2278@yahoo.com

B V H Consulting Engineers

Survey and Engineering Project Consultants

Aggregate Impact Value (W.M.M.)

IS : 2386 Part IV

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7 & 8 Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub-Name of road :Improvements to Roads and drains at Nethaji Layout in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

CLIENT : Executive Engineer Byatarayanapura Division,NO.2152/20,Defence colony, SahakarNagara Banglore-92 .

Name of the Agency : Benaka Developers & project pvt.Ltd.

SAMPLE ID : From 2nd Cross Road to 2nd Main TO 4th Cross Road to 2nd Main.

Reference : Agreement No.BBMP/EE/BTP/AG/007/16/000043/16-17 **DATED:** 16-01-2018.

Date of Testing : 12-02-2018.

Sl. No	Details	Trial No.		Average
		1	2	
1	Total Weight of aggregate sample filling the cylindrical measure = W_1 g	386	383	
2	Weight of aggregate passing throw 2.36 mm IS sieve after the test = W_2 g	89	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	366	361	
4	Aggregate Impact value = percent fine	23.06	22.19	22.63
	$100*(W_2/W_1)\%$			

Comments:

- **Maximum allaovable Aggregate Impact value for Wet Mix Macadam is 30%.**

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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3. Any Query regarding the report must be within 30 days from the date of testing.

For B.V.H. Consulting Engineers

Proprietor

AE(WZ)

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 23240685, Cell : 9964339888 E-mail : mbnk2278@yahoo.com

B V H Consulting Engineers

Survey and Engineering Project Consultants

Determination of Flakiness Index & Elongation Index of Coarse Aggregate.

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7 & 8 Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub-Name of road :Improvements to Roads and drains at Nethaji Layout in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

CLIENT : Executive Engineer Byatarayanapura Division,NO.2152/20,Defence colony, Sahakara Nagara,Banglore-92 .

Name of the Agency : Benaka Developers & project pvt.Ltd.

SAMPLE ID : From 2nd Cross Road to 2nd Main TO 4th Cross Road to 2nd Main.

Reference : Agreement No.BBMP/EE/BTP/AG/007/16/000043/16-17 **DATED:** 16-01-2018.

Date of Testing : 12-02-2018.

Result: Flakiness Index = 12.32%.

Elongation Index = 13.63%.

Result: Combined Flakiness & Elongation Index = 25.95%.

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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For B.V.H. Consulting Engineers

Proprietor

A.E (W7)

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 23240685, Cell : 9964339888 E-mail : mbnk2278@yahoo.com

B V H Consulting Engineers
Survey and Engineering Project Consultants

TEST REPORT ON FINE AGGREGATE

NAME OF WORK: Package2 Improvements to roads and drains providing amenities construction of RO water plant Bangalore one center in ward no.7& 8Byatarayanapura Division as per annexure Go No UDD 217 SFC 2016 Dated 28.5.2016 works Sl No for Ward No. 7 12 To 23 & Ward No. 8 24 To 32.

Sub - Name of Work : Improvements to Roads and drains at Amruthanagara, B- Sector near Amrutahalli new Police station in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Client : Executive Engineer, Byatarayanapura Division, NO.2152/20, Defence colony, sahakara Nagara, Bangalore-92

Name of the Agency : Benaka Developers & Projects Pvt. Ltd.

Reference: Agreement NO.BBMP/EE/BTP/AG/007/16/000043/16-17 Dated : 16/01/2018

Date of Testing: 25-02-2018

SAMPLE ID : Sand

Date of testing : 25-02-2018 **Total Wt of Aggregate in Gms ;**1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pa...
Bangalore - 560 092

B.V.H. Consulting Engineers Bangalore

AE(W)

#42/1, 6th Main Road, Jnanajyothi Nagara, Malathalli, Bangalore – 560 056.Tel: 080-23241948, Fax: 080 - 23240685, Cell : 9964339888 E-mail : mbnk2278@yahoo.com